

CORYNEFORM BACTERIA

They are mostly Gram (positive), aerobic, non-motile, pleomorphic with the formation of V-shaped cell arrangements. There are four major taxonomic subgroups:

1. Arthrobacterium.
 2. Corynebacterium.
 3. Brevibacterium.
 4. Cellulomonas.
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IUBMB Enzyme Nomenclature**EC 2.2 1.2**

Recommended name: transaldolase

Reaction: sedoheptulose 7-phosphate + D-glyceraldehyde 3-phosphate = D-erythrose 4-phosphate + D-fructose 6-phosphate

Other name(s): dihydroxyacetone transferase; dihydroxyacetone synthase; formaldehyde transketolase

Systematic name: sedoheptulose-7-phosphate:D-glyceraldehyde-3-phosphate glyceronetransferase

Links to other databases: [BRENDA](#), [EXPASY](#), [GTD](#), [KEGG](#), [WIT](#), CAS registry number: 9014-46-4

References:

1. Horecker, B.L. and Smyrniotis, P.Z. Purification and properties of yeast transaldolase. *J. Biol. Chem.* 212 (1955) 811-825.
2. Racker, E. Transaldolase. In: Boyer, P.D., Lardy, H. and Myrbäck, K. (Eds.), *The Enzymes*, 2nd ed., vol. 5, Academic Press, New York, 1961, pp. 407-412.
3. Tsolas, O. and Horecker, B.L. Transaldolase. In: Boyer, P.D. (Ed.), *The Enzymes*, 3rd ed., vol. 7, Academic Press, New York, 1972, pp. 259-280.

[EC 2.2.1.2 created 1961]

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